UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:	Haltmeyer		
Application No.	10/076,948	Group Art Unit:	2182
Filed:	19 February 2002	Examiner:	To be assigned
For:	THOROUGH OPERATION RESTRICTION		

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INFORMATION DISCLOSURE STATEMENT

Honorable Commissioner of
 Patents and Trademarks
Washington, D.C. 20231

Sir:

Enclosed are copies of the following reference documents.

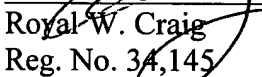| Patent No.	Inventor(s)	Date of Publication
US5,802,397	Greenstein et al.	1 September 1998

Summary of the references:

U.S. Patent No. 5,802,397 to Greenstein et al. discloses protection against unwanted I/O accesses in main storage blocks/page frames independent of any storage protection provided against unwanted CPU accesses. An I/O protection array is used containing one-bit I/O keys used only for protecting which respectively protect associated blocks/page frames from unwanted accesses by I/O programs. Each one-bit I/O key is used to allow or disallow I/O

accesses into an associated storage block. Any CPU access is not affected by the I/O storage key. No I/O program key is used and therefore no key compare operation is required. However, the embodiment is compatible with use of CPU storage protection using CPU storage keys in either real form in a CPU storage key array, or in virtual form in page table entries without using any CPU storage key array.

<p align="center">* * * * *</p>

The above-described reference is submitted herewith along with form PTO-1449 for the convenience of the Examiner. Consideration of the foregoing and the making of the references formally of record in the instant application are respectfully requested.

Respectfully submitted,

Royal W. Craig
Reg. No. 34,145
Attorney for Applicants

5/7/02
Date

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Substitute for form 1449A/PTO	**Complete if Known**	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application Number	10/076,948
	Filing Date	February 19, 2002
	First Named Inventor	Haltmeyer, John M.
(use as many sheets as necessary)	Group Art Unit	2182
	Examiner Name	To be assigned
Sheet 1 of 1	Attorney Docket Number	HALTMEYER-PA-2

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] *(if known)*	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	5,802,397		Greenstein et al.	09-01-1998	

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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Office[3]	Number[4]	Kind Code[5] *(if known)*	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number. [2] See attached Kinds of U.S. Patent Documents. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.